

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/11493

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl' C23G1/10, C23F15/00, B08B9/02, F16L58/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl' C23G1/10, C23F15/00, B08B9/02, F16L58/02Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2003
Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, A	EP 892084 A (KITZ CORP.), 20 January, 1999 (20.01.99), & JP 11-29887 A	1-7, 16-23, 29-35, 8-15, 24-28
A	JP 2002-155391 A (Toto Ltd.), 31 May, 2002 (31.05.02), (Family: none)	1-35

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:
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 "&" document member of the same patent family

Date of the actual completion of the international search 09 December, 2003 (09.12.03)	Date of mailing of the international search report 24 December, 2003 (24.12.03)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.